

Supporting Document 9

SOUTHERN CALIFORNIA SOIL & TESTING, INC.



PHONE
(619) 280-4321
TOLL FREE
(877) 215-4321
FAX
(619) 280-4717

P.O. Box 600627
San Diego, CA 92160-0627
6280 Riverdale Street
San Diego, CA 92120
www.scst.com

December 9, 2002

Proposal No.: 02E049

Mr. Chung Kwan Hsu
Budget Trade and Gas
510 W. Fifth Avenue
Escondido, California 92025

Subject PROPOSAL TO CONDUCT REMEDIAL ACTIVITIES
EXCAVATION AND ENHANCED BIOREMEDIATION
BUDGET TRADE AND GAS
510 WEST 5TH AVENUE
ESCONDIDO, CALIFORNIA

Dear Mr. Hsu:

Southern California Soil and Testing, Inc., (SCS&T) is pleased to present this proposal for environmental engineering services at the Budget Trade and Gas facility located at 510 West 5th Avenue in Escondido, California. This proposal has been prepared pursuant to the requirements of the Regional Water Quality Control Board (RWQCB), and in general accordance with the approved project Corrective Action Plan (CAP) dated January 30, 2001.

BACKGROUND

SITE LOCATION

The site is located on West 5th Avenue west of Centre City Parkway and South Pine Street in Escondido, California. A site map depicting the approximate locations of site structures and the UST system is included in our assessment report, dated April 30, 2002, and in quarterly groundwater monitoring reports. The site is an operating gasoline service station. Topography at the site is essentially flat.

SITE IDENTIFICATION

Site Name: Budget Trade and Gas
Site Address: 510 West 5th Avenue, Escondido, California

PREVIOUS ASSESSMENT ACTIVITIES

On and off-site groundwater monitoring wells have been installed and sampled to evaluate and assess the extent of dissolved and free-product petroleum hydrocarbons associated with the release from the UST system at the site. On January 30, 2001, SCS&T submitted a CAP, which presented possible remediation alternatives for the site. The alternatives presented included the following:

Mr. Chung Kwan Hsu
Budget Trade and Gas

December 9, 2002
SCS&T Proposal No. 02E049
Page 2

- Soil Excavation and Off-Site Treatment/Disposal
- Soil Vapor Extraction
- Free Product Removal
- Groundwater Withdrawal and Treatment
- High-Vacuum, Dual-Phase Extraction
- Vapor Extraction and Air Sparging
- Enhanced Bioremediation

Subsequent pilot testing for soil vapor extraction and air sparging indicated that these two methods would not likely be effective at the site. Soil excavation and off-site treatment/disposal, coupled with enhanced bioremediation, outlined in our remedial action plan, dated May 1, 2002, and agreed upon by the RWQCB, will be conducted at the site.

OBJECTIVES

The objectives of the proposed scope of services are to:

- Remove a portion of the source of dissolved and free-product petroleum hydrocarbons in groundwater, namely, petroleum hydrocarbon-bearing soil in contact with groundwater.
- Reduce concentrations of dissolved petroleum hydrocarbons in groundwater by performing enhanced bioremediation of remaining petroleum hydrocarbons in groundwater at the site.

SCOPE OF SERVICES

A brief summary of the scope of services is as follows:

PHASE I - PRE-FIELD ACTIVITIES

Soil Boring/Monitoring Well Permit Application

As required by the DEH, a permit application for the destruction of groundwater monitoring wells within the areas to be excavated will be prepared and submitted to the DEH with the proper fee. The permit applications will be signed by an appropriately licensed professional.

Site Health and Safety Plan

A site health and safety plan (Plan) is required for the work conducted at the site by workers within the "exclusion zone" pursuant to the regulations in 29 Code of Federal Regulations (CFR) Part 1910.120 and Title 8 California Code of Regulations (CCR) Section 5192. A Plan will be prepared which outlines the potential chemical and physical hazards that may be encountered during the drilling and sampling activities. The appropriate personal protective equipment and emergency response procedures for the site-specific chemical and physical hazards will be detailed in this Plan. All field personnel involved with the fieldwork will be required to read and sign the Plan.

SC
ST

Mr. Chung Kwan Hsu
Budget Trade and Gas

December 9, 2002
SCS&T Proposal No. 02E049
Page 3

In addition to the site health and safety plan, a community health and safety plan will be prepared for the excavation activity. The primary objective of the community health and safety plan will be to promote a safe and healthy environment for the public by:

- Minimizing community exposures to hazards from site activities and/or releases which may migrate off-site; and
- Assuring community awareness.

The community health and safety plan would be prepared in general accordance with Section 4 of the San Diego County, Site Assessment and Mitigation (SAM) Manual.

Utility Search and Mark Out

Prior to drilling, SCS&T will contact Underground Service Alert (USA) as required by law, to attempt to locate subsurface utilities and improvements at the site. In addition, a private utility locating company will be retained to conduct a survey for subsurface utilities in the areas where the proposed excavations will be located.

Project Management, Subcontractor Management, and Scheduling

Prior to mobilizing for fieldwork, SCS&T will notify and schedule the excavating company, shoring company, soil and water disposal company, and laboratory, as well as USA.

PHASE II - FIELD WORK

The fieldwork will involve excavating petroleum hydrocarbon-bearing soil in several areas of the site. These areas have been determined based on results of soil assessment activities previously conducted at the site. These excavations will result in destruction of monitoring wells previously discussed. The wells will be appropriately abandoned during the excavation activity.

The excavation activity will include the following tasks:

- Removal and recycling of approximately 3,136 square feet of asphalt pavement
- Excavate and stockpile approximately 1,400 bank cubic yards (BCY) of soil
- Place shoring in areas adjacent to the existing USTs. Approximately 99 lineal feet of temporary shoring to a depth of approximately 12 feet below grade will be required. The purpose of the shoring would be to prevent disruption of the backfill material around the existing USTs.
- Load and transport excavated soil to an appropriately licensed treatment/disposal facility
- Dewater excavation and place water in an appropriate storage tank(s). The estimated cost is based on the assumption that dewatering would take place for up to five days.
- Transport and dispose of dewatering water at an appropriately licensed facility
- Apply approximately 6,000 pounds of Oxygen Release Compound (ORC®) to the excavations prior to backfill
- Backfill the excavation
- Repave approximately 3,136 square feet

SCS
ST

Mr. Chung Kwan Hsu
Budget Trade and Gas

December 9, 2002
SCS&T Proposal No. 02E049
Page 4

During the excavation activities, barricades and temporary fencing will be placed around the excavations to minimize the likelihood of unauthorized access to the work area. As portions of the excavation are completed, confirmation soil samples will be collected and analyzed to evaluate whether additional excavation might be necessary and to confirm the effectiveness of the excavation activity as a means of source removal. Excavation greater than that proposed would be conducted if results of confirmation sampling indicate total petroleum hydrocarbon (TPH) concentrations greater than 100 milligrams per kilogram (mg/kg).

PHASE III -REPORTING

A remedial action report outlining the excavation activities and results of confirmation soil sampling will be prepared and submitted to the RWQCB. The report will be reviewed and signed by appropriately registered professionals. The report will include conclusions and recommendations, as appropriate, for additional environmental engineering measures at the site.

ESTIMATED BUDGET

The estimated costs to perform the additional work as described above will be billed on a time-and-materials basis in accordance with the attached Conditions of Service, Professional Services Agreement, and Schedule of Fees. A detailed cost summary, along with subcontractor estimates, are attached. Subcontractors to be used for this project include, but are not necessarily limited to, a subsurface utility locator, an excavation contractor, a shoring contractor, a provider of the bioenhancement agent, a provider of a dewatering water storage tank or tanks, an analytical laboratory, and a soil and groundwater disposal contractor. The following table presents a summary of the estimated costs.

Phase	Estimated Cost
Phase I - Pre-Field Work Activities	\$ 5,100
Phase II - Excavation Activities	\$401,900
Phase III - Remedial Action Report	<u>\$ 5,000</u>
Total	\$412,000

Should additional work beyond the scope described in this proposal be required, the following unit rates will apply:

SC
ST

Mr. Chung Kwan Hsu
Budget Trade and Gas

December 9, 2002
SCS&T Proposal No. 02E049
Page 5

WORK	RATE
Asphalt removal and replacement greater than 3,136 square feet	\$9.20/s.f.
Soil excavation/stockpiling greater than 1,400 BCY	\$11.50/BCY
Loading of excavated soil greater than 1,950 tons (1,400 BCY)	\$3.45/ton
Import, backfill, and compact fill soil greater than 1,050 tons	\$17.25/ton
Import and backfill crushed rock greater than 1,400 tons	\$23/ton
Dewater excavation greater than 5 days	\$575/day
Transportation and disposal of soil greater than 1,950 tons	\$52.33/ton
Water disposal over 4 loads	\$4,439/load
Rental of Baker tank greater than 15 days	\$35.75/day
Mobile laboratory charges over 5 days/30 analyses per day	\$1,725/day \$56.35/each analysis over 30/day

Additional SCS&T labor fees above those included in this proposal would be charged in accordance with the attached Schedule of Fees. Copies of subcontractor quotes for excavation, soil disposal, water disposal, and rental of the Baker tank, as well as a detailed budget estimate summary, is also attached.

AUTHORIZATION

If this proposal meets with your approval, please authorize our services by signing and returning both copies of the attached Professional Services Agreement to our office for counter signatures. In turn, we will turn send you a fully executed copy for your records.

If we may assist you in any way, please do not hesitate to call our office at (619) 280-4321. We look forward to working with you on this important project.

Respectfully,
SOUTHERN CALIFORNIA SOIL & TESTING, INC.



Charles E. Houser, CEG 2206
Project Geologist

CEH:sd

Attachments: 2002 Schedule of Fees
Budget Estimate Summary
Professional Services Agreement
Subcontractor Quotes

(2) Addressee
(1) Clean-up Fund

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